

SEQUENCE LISTING

<110> Nippon Mitsubishi Oil Corporation

<120> A process for producing carotenoid pigments

<130> PH-1223-PCT

<140>

<141>

<150> JP 2000-175124

<151> 2000-06-12

<160> 2

<170> PatentIn Ver. 2.0

<210> 1

<211> 1452

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:E-396

<400> 1

agtttgtatcc tggctcagaa cgaacgctgg cggcaggctt aacacatgca agtcgagcga 60

gaccttcggg tctagcggcg gacgggttag taacgcgtgg gaacgtgccc ttctctacgg 120
aatagccccg ggaaactggg agtaataccg tatacgcctt ttggggaaa gatttatcgg 180
agaaggatcg gcccgcgttg gattaggttag ttgggtgggt aatggccac caagccgacg 240
atccatagct ggttttagag gatgatcagc cacactggga ctgagacacg gcccagactc 300
ctacgggagg cagcagtggg gaatcttaca caatggggc aaccctgate tagccatgcc 360
gcgtgagtga tgaaggcctt agggttgtaa agctcttca gctggaaaga taatgacggt 420
accacgacaa gaagccccgg ctaactccgt gccagcagcc gcggtaatac ggagggggct 480
agcgttgttc ggaattactg ggcgtaaagc gcacgttaggc ggactggaaa gtcagaggtg 540
aaatcccagg gctcaacctt ggaactgcct ttgaaactat cagtcggag ttggagagag 600
gtgagtgaa ttccgagtgt agaggtggaaa ttctgttagata ttggaggaa caccagtggc 660
gaaggcggct cactggctcg atactgacgc tgaggtgcga aagcgtgggg agcaaacagg 720
attagatacc ctggtagtcc acgcccgtaaa cgatgaatgc cagacgtcgg caagcatgct 780
tgtcggtgtc acacctaacg gattaagcat tccgcctggg gagtacggc gcaagattaa 840
aactcaaagg aattgacggg ggcccgacaa aggggtggag catgtggttt aattcgaagc 900
aacgcgcaga accttaccaa cccttgacat ggcaggaccg ctggagagat tcagcttct 960
cgtaagagac ctgcacacag gtgctgcatg gctgtcgtca gctcggtcg tgagatgttc 1020
ggtaagtcc ggcaacgagc gcaacccacg tccctagttt ccagcaattc agttgggaac 1080
tctatggaaa ctgccatgtt taagtcggag gaaggtgtgg atgacgtcaa gtccatgg 1140
gccttacggg ttgggctaca cacgtgctac aatggtggtg acagtgggtt aatccccaaa 1200
agccatctca gttcggttt tcctctgcaa ctggggca tgaagtttggaa atcgcttagta 1260
atcgccgaaac agcatgccgc ggtgaatacg ttccggggcc ttgtacacac cgcccggtcac 1320
accatgggag ttgggttctac ccgacgacgn tgcgctaacc ttggggggc aggccggccac 1380
ggtaggatca gcgactgggg tgaagtcgtt acaaggttagc cgttagggaa cctgcggctg 1440
gatcacctcc tt

1452

<210> 2

<211> 1426

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:A-581-1

<400> 2

tagagtttga tcctggctca gaacgaacgc tggcggcagg cttaacacat gcaagtgcag 60
cgagaccttc gggtagcgc gcggacgggt gagtaacgcg tggAACGTG cccttctcta 120
cggaatagcc cgggaaact gggagtaata ccgtatacgc ccttggggg aaagatttat 180
cggagaagga tcggcccgcg ttggattagg tagtttgtga ggtaacggct caccaagccg 240
acgatccata gctggtttga gaggatgatc agccacactg ggactgagac acggcccaga 300
ctcctacggg aggcaacgt gggaatctt agacaatggg ggcaaccctg atctagccat 360
gccgcgtgag tcatgaaggc cttagggttg taaagcttt tcagctgggaa agataatgac 420
ggtaccagca gaagaagccc cggctaactc cgtgccagca gccgcggtaa tacggagggg 480
gctagcgttg ttggaaatta ctggcgtaa agcgcacgta ggcggactgg aaagtcaagag 540
gtgaaatccc agggctcaac cttggaaactg ctttggaaac tatcagtctg gagttcgaga 600
gaggtgagtg gaattccgag tgttagaggtg aaattcgttag atattcgag gaacaccagt 660
ggcgaaggcg gctcaactggc tcgataactga cgctgaggtg cgaaagcgtg gggagcaaac 720
aggattagat accctggtag tccacggcgtaa aacgatgaa tgccagacgt cggcaagcat 780
gcttgcgtt gtcacaccta acggattaag cattccgcct gggaggtacg gtcgcaagat 840
taaaactcaa aggaattgac gggggccccgc acaagcggtg gagcatgtgg tttattcga 900
agcaacgcgc agaaccttac caacccttga catggcagga ccgctggaga gattcagctt 960
tctcgtaaga gacctgcaca caggtgctgc atggctgtcg tcagctcggt tcgtgagatg 1020
ttcggttaag tccggcaacg agcgcaaccc acgtccctag ttgccagcat tcagttggc 1080
actctatgga aactgcccgt gataagccgg aggaagggtgt ggtacgtacg aagtccctcat 1140
ggcccttacg ggttggcttaa cacacgtgct acaatggtg tgacagtggtt ttaatcccc 1200
aaagccatct cagttcggtt tgcctctgc aactcgaggg catgaagttt gatatcgctag 1260
taatcgccga acagcatgcc gcggtaata cgttccggg cttgtacac accgcccgtc 1320
acaccatggg agttgggtt acccgacgac gctgcgttaa cccttcgggg aggcaaggcgg 1380
ccacggtagg atcagcgact ggggtgaagt cgtaacaagg tagcca 1426